

## Patent Abstracts of Japan

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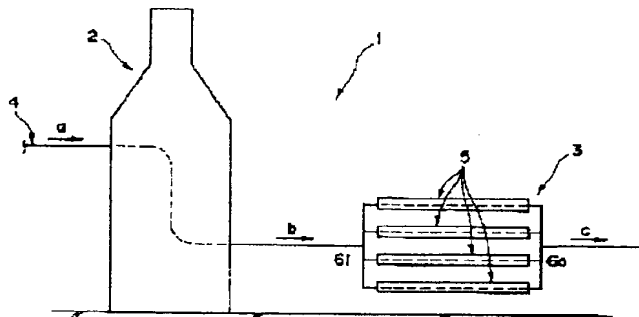
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TITLE : THERMAL CRACKING OF  
HYDROCARBON AND EQUIPMENT  
THEREFOR



ABSTRACT : PROBLEM TO BE SOLVED: To easily obtain ethylene, etc., by induction heating of feedstock hydrocarbons to effect thermal cracking thereof through such operations as to facilitate accurate heating control at high temperatures and prevent operational troubles.

SOLUTION: First, feedstock hydrocarbons such as naphtha is preheated by making use of the heat of combustion in a heating furnace 2; subsequently, the feedstock hydrocarbons preheated are subjected to thermal cracking at high temperatures by making use of the induction heating by an induction heating apparatus 3, thus accomplishing the objective thermal cracking of the hydrocarbons. It is preferable that the induction heating apparatus 3 holds plural induction heating pipes connected mutually in parallel with one another and is equipped with a sealed case with the inside kept in an inert gas atmosphere.

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